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UNIVERSITY of ILLINOIS

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The New York State School

Of Clay-Working and Ceramics

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BOOK CLASS VOLUME

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President Boothe Colwell Davis, Ph. D.

FACULTY

BOOTHE COLWELL DAVIS, Ph. D., President.

CHARLES F. BINNS,
Director and Professor of Ceramic Technology.

Supt. Royal Porce'ain Works, Worcester, England – 1897; Principal Technical School, Trenton, N. J., 1897–1900; Superintendent Ceramic Art Co., Trenton, N. J., 1898–1899; Vice-President American Ceramic Society, 1900.

LILLIE W. TOURTELLOTTE.
Instructor in Graphics and Decorative Art.

Graduate of Pratt Institute, Brooklyn; Special courses in Instrumental and Free-hand Drawing, Water Color, Applied Design and Clay Modeling.

DANIEL C. BABCOCK.
Assistant in Technical Laboratories.

Professors in Alfred University who Give Instruction in the New York State School of Clay Working and Ceramics:

ALPHEUS B. KENYON, S. M.,
Professor of Mathematics.

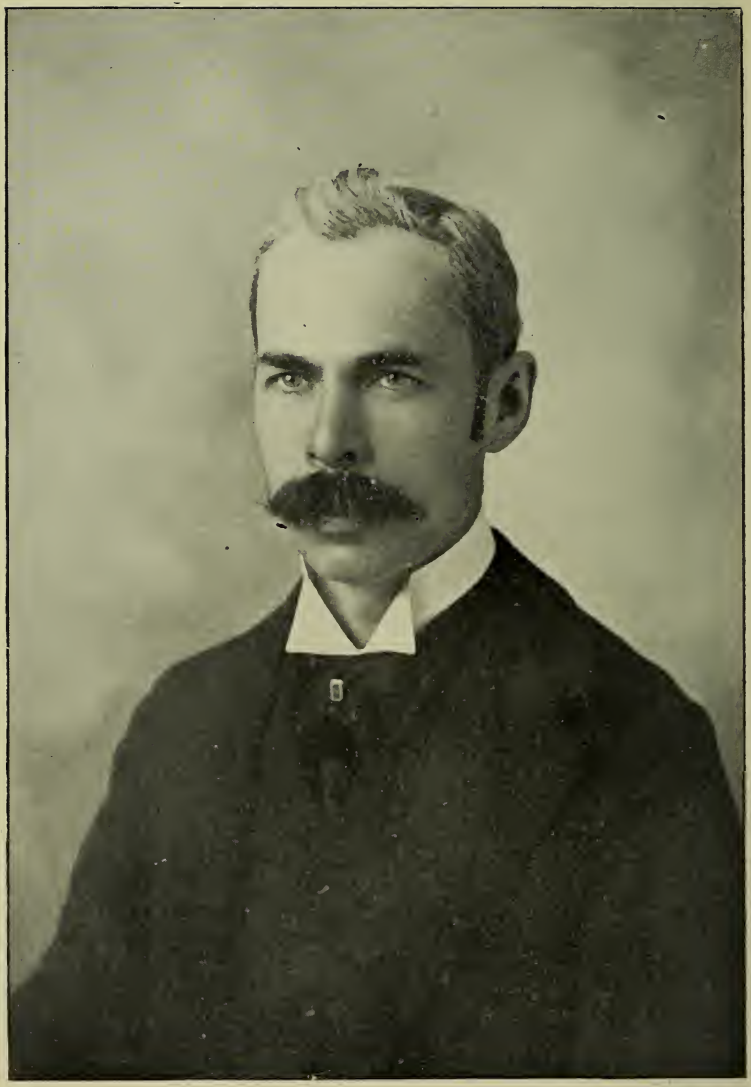
ALBERT R. CRANDALL, Ph. D.,
Professor of Geology and Microscopy.

OTHO P. Fairfield, A. B.,
Professor of English.

GERTRUDE B. HARRIS, L. B.,
Professor of Modern Languages.

EDWARD S. BABCOCK, S. M.,
Professor of Chemistry and Physics.

GEORGE A. MAIN,
Assistant in Industrial Mechanics.



Professor Charles F. Binns, Director.

THE NEW YORK STATE SCHOOL OF CLAY-WORKING AND CERAMICS

THIS SCHOOL was established by chapter 383, Laws of New York State, 1900, which provides for the construction and equipment of a suitable building and for the maintenance of the school.

The demand for the school arose from the fact that the great utilitarian field occupied by clay wares is attracting public notice on every side. Clay in one form or another constitutes the great mass of modern fire-proof building material, and the larger part of general constructive material is derived from the same source.

The wisdom of locating the school at an established seat of learning and in close proximity to clay-working industries must be apparent to all.

No branch of study can stand alone. The student of clay-working should be educated in collateral departments of science and art. For this work Alfred University offers splendid advantages. Laboratories of chemistry and physics, libraries, museums of geology and natural history, workshops for manual training, and all the departments of liberal culture are available so that the many and varied requirements of a complete education are fully met.

It is the purpose of the school to give a practical training in the technology of clay-working, neglecting neither the science nor the art. Attention will be given to the improvement of methods of manufacture and the reduction of cost to the end that the resources of the State may be fully developed, and that within its borders may be manufactured the clay-wares both coarse and fine now brought from other states or countries at an enormous annual cost.

NEW YORK STATE SCHOOL OF CERAMICS.

BUILDING AND EQUIPMENT

The building constructed for the State School of Clay-Working and Ceramics is located upon the campus of the University and is designed especially for this work. It is built of red brick and terra-cotta with grey trimmings and roofed with red tile. It has a floor space of about thirteen thousand square feet, and a frontage of seventy-five feet.

In the lower story are located the heavy machinery for the manufacture of brick, tile, hollow blocks, and roofing tile, the slip making plant, cylinders for glaze preparation, and a workshop fitted with modern appliances for pottery and porcelain manufacture. There are also rooms for mold making and drying, and the necessary damp cellar.

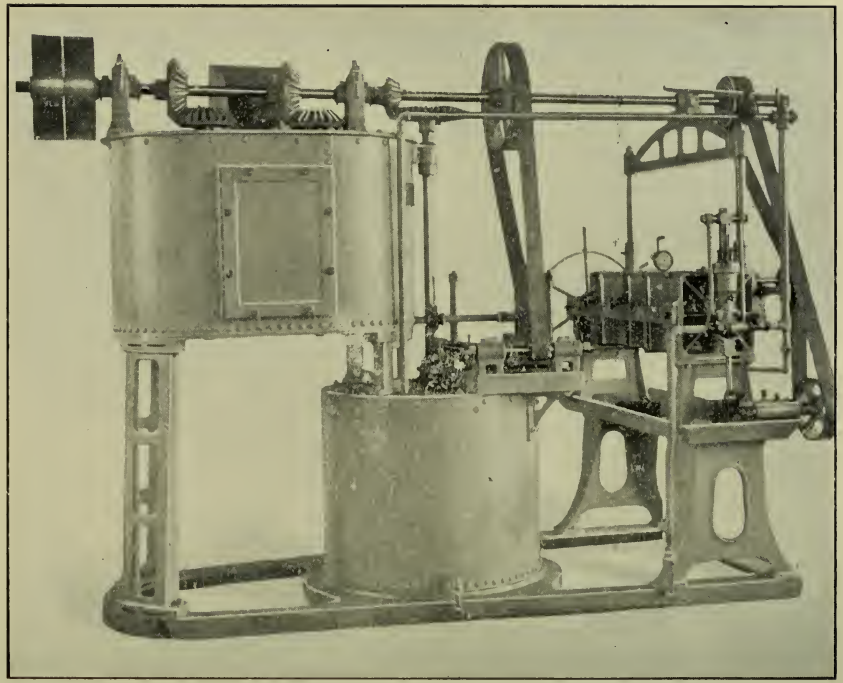
The motive power is a gas engine, natural gas being available.

On the principal floor are located the executive offices, rooms for the Director, laboratories, and a class room. Here the experimental work will be done.

The Technical laboratory is provided with small blungers and mills for working clay samples, small gas furnaces for fretting and fusing and all the necessary apparatus for the physical testing of clay.

Ample provision has been made for the chemical testing of materials.

The art department of the school is located on the second floor. A fine studio is arranged, provided with the facilities necessary for the practice of mechanical drawing and free-hand drawing and applied design. Adjoining this is the modeling room where, in addition to ornamental work in clay, the production of pure form will be studied. To facilitate this work horizontal and vertical lathes are provided so that the student may be enabled to realize the ideas laid down upon paper. A large space is provided on the upper floor of the building for a ceramic museum in which examples of clay work of every type may be studied.



SLIP-MAKING PLANT.—Crossley Mfg. Co.

In addition to this splendid equipment it is worthy of note that within a short distance of the school are located two plants in which are manufactured bricks by both the wet and dry processes, several styles of roofing tile, and quarries for floors and roofs. Here may be seen the actual working of manufacturing plants, and the use of at least three kinds of kilns, including a continuous kiln.

TUITION

Students who are residents of New York State are exempt from payment of tuition by the provisions of the act establishing the school.

To students from other states, a tuition fee of $50 per annum will be charged.

Small laboratory fees to cover cost of materials and breakage are also required.

COURSES OFFERED

The course of study which leads to a degree extends over a period of four years, and embraces such subjects as are equivalent to the usual college course. A short course of two years is also offered, which is specially designed to assist those having some practical experience in clay-working and who desire to supplement their knowledge with scientific method and research.

BENEFITS TO BE DERIVED

The student who successfully pursues the course of instruction provided in this school will be able to take up the practical work of manufacturing clay wares. He will be able to lay out his plans, place his machinery, design his goods, shape his wares, and carry the whole matter to a successful conclusion.

It is difficult to conceive of any more attractive work than the solution of the problems in chemistry, physics, and art presented to the clay-worker. Furthermore, the field for skilled and educated men in this line is practically vacant. There is no calling in industrial work offering greater opportunities than are now presented to the educated ceramist.

CONDITIONS OF ADMISSION

Candidates for admission to the four years' course in the School of Clay Working and Ceramics will be subject to the conditions laid down for admission to the Scientific course in the College of Liberal Arts. (See Annual of Alfred University).

Students desiring admission to the short course must be at least 16 years of age and of good moral character. They must give evidence of proficency in English Composition and reading, arithmetic and simple mathematics. Candidates of mature age may be admitted at the discretion of the Faculty, upon giving evidence of earnest purpose and of ability to assimilate the instruction.

COURSES OF STUDY

REQUIRED STUDIES IN FOUR YEARS' COURSE.

Arabic numeral indicate the numb r of exercises per week. Roman numerals indicate the semester in which the courses will be given. All courses extend through the year except where marked I or II.

FRESHMAN YEAR.

Rhetoric, 2
Geometry, 2
Chemistry, 3
German, 3
Mechanics, 2
Graphics, 2
Ethics, 1

SOPHOMORE YEAR.

English Literature, 2
I Mathematics, 3
Chemistry, 2
German, 2
Physics, 3
II Graphics, 2
Ceramics, 3 [theory]
Ceramics, 2 [laboratory]

JUNIOR YEAR.

Mathematics, 3
Graphics, 2
Mechanics, 2
Geology, 3
I Microscopy, 2
II Ceramics, 2 [theory]
Ceramics, 3 [laboratory]

SENIOR YEAR.

Graphics, 2
Geology, 2 [economic]
Ceramics, 12

REQUIRED STUDIES IN TWO YEARS' COURSE.

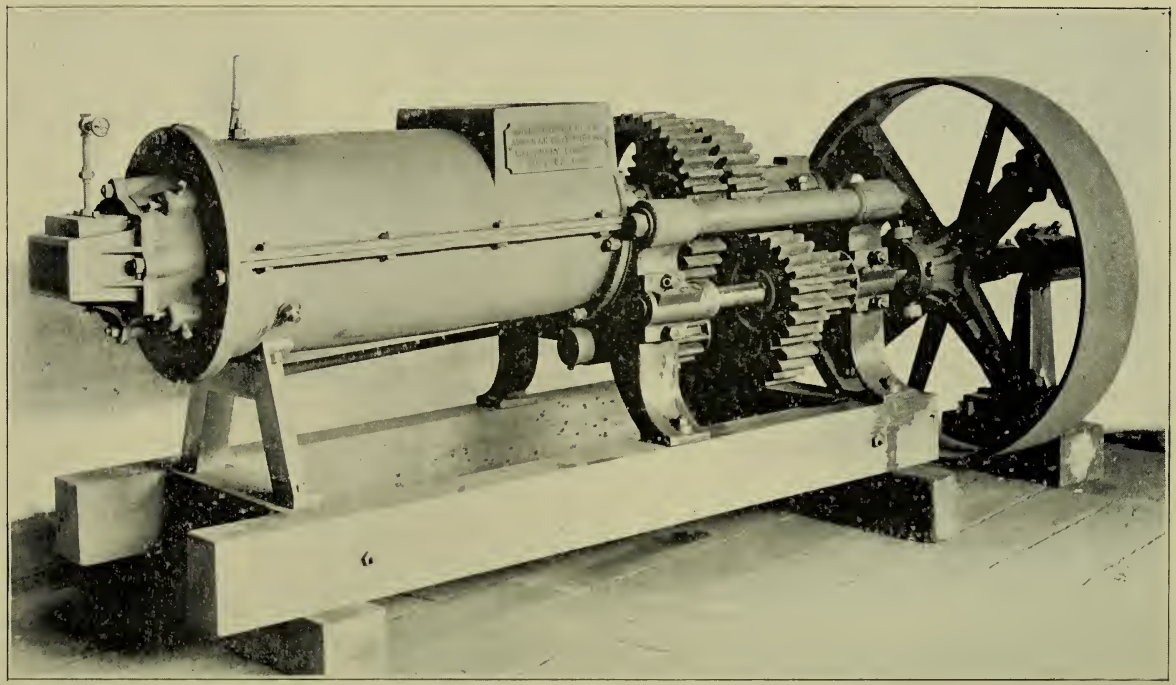
FIRST YEAR.

Geometry, 2
Mechanics, 2
Graphics, 2
Chemistry, 5
Ceramics, 4
Ethics, 1

SECOND YEAR,

Graphics, 2
Geology, 2
Chemistry, 5
Ceramics, 7

For detailed description of the courses required in English, Mathematics, Chemistry, Physics, Mechanics, Geology, German, Ethics, and Microscopy, reference may be had to the Annual of Alfred University, which will be sent on application.



CENTENNIAL BRICK MACHINE.—American Clay Working Machinery Co.

DEPARTMENT OF TECHNOLOGY

PROFESSOR BINNS.

MR. D. C. BABCOCK.

1. A course of lectures, with recitations, on the nature and properties of clay, their origin and composition. The bearing of chemistry on the ceramic industries. Impurities of clays. The nature and requirements of glazes. History of Ceramics. Sophomore year, three hours.

2. A course of lectures, with recitations, on the requirements of clays and other substances for the production of fictile wares. Methods of manufacture of brick, tile and sewer pipe. Glazes and glazing. History of Ceramics. Junior year, two hours.

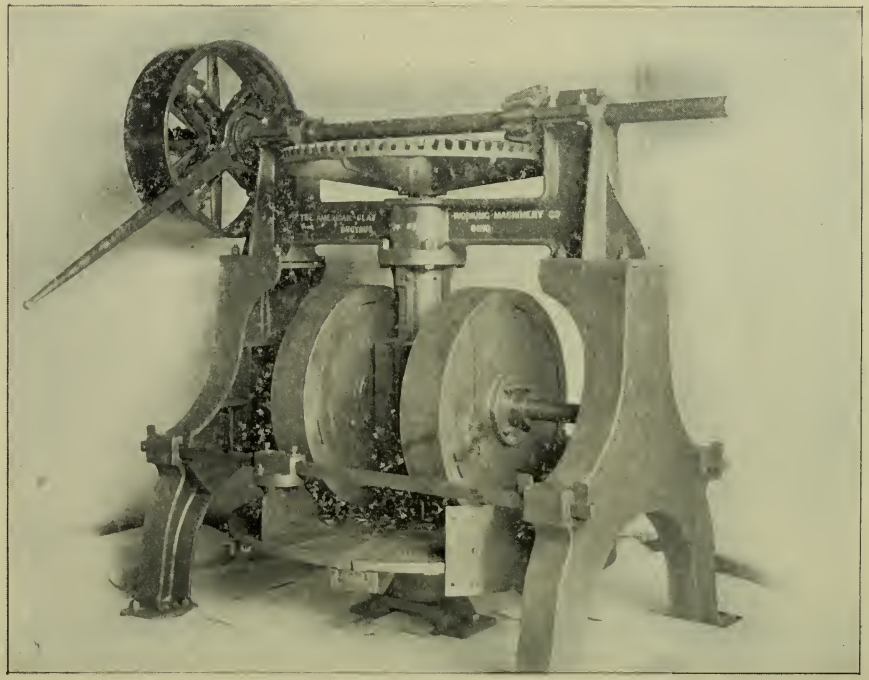
3. A course of lectures, with recitations, on the higher products of the potter's art. White wares and faïence, Earthenware, Sanitary ware, Once-fired ware, Fire-proof and Refractory ware, Hard and Soft Porcelain. Ceramic colors. History of Ceramics. Senior year, two hours.

4. A course of laboratory demonstration and practice. The testing of clays, effect of impurities. Elementary kiln work. Sophomore year, two hours.

5. A course of laboratory demonstration and practice. The blending of clays. Effect of admixtures. Manufacture of brick, tile, sewer pipe, hollow ware and terra-cotta. Preparation and firing of glazes. Junior year, three hours.

6. Laboratory and workshop practice in continuation of course 5. The manufacture, glazing and decoration of finer wares. Kiln construction and pyrometry. Students will be encouraged to specialize. Senior year, ten hours.

Students who elect to enter the short course will omit courses 3 and 6 unless their work is to embrace white wares in which case they will omit courses 2 and 5.



DRY PAN —American Clay Working Machinery Co.

DEPARTMENT OF CLAY TESTING

PROFESSOR BINNS.

PROFESSOR E. S. BABCOCK.

The State School of Ceramics is specially fitted and the experts in charge are exceptionally well qualified for the professional examination and testing of clays for economic purposes. Such clays may be classified under the following heads:

(*a*) Kaolin, white burning residual clay.

(*b*) Kaolin, white burning, washed for market, used in the manufacture of pottery, porcelain and paper.

(*c*) Ball clay, white or cream burning, sedimentary clay of high plasticity, used in pottery manufacture.

(*d*) Stone ware clay, gray or cream burning, more or less sandy in character, used in stoneware manufacture.

(*e*) Fire clay, buff or white burning, refractory, used for manufacture of fire brick.

(*f*) Brick clay, including colored clays and shales used for the manufacture of brick and tile of various qualities and descriptions.

For each of the above classes special tests are necessary, and the charges made are proportionate to the work required.

A report upon each sample will be furnished and must be understood to refer only to the sample submitted unless the experts are instructed to examine the deposit and prepare their own samples, in which case special charges will be made. The report includes chemical and physical tests, rational analysis where necessary, fire and shrinkage tests, advice as to washing or other preparation of the clay, and an opinion as to the industry to which the material may be applied.

CHARGES.

For classes a, d, and e, per sample	$50 00.
For classes b, c, and f, per sample	$25 00.

All charges are payable in advance.

The sample submitted should not be less than five pounds in weight and must be forwarded free of charge.

If the manipulation of bulk samples be desired the State School is prepared to undertake the experimental production of clay wares at reasonable rates.

Clays and shales indigenous to the State of New York will be tested without charge beyond the actual cost involved in the examination. Estimates can be obtained upon application.

DEPARTMENT OF GRAPHICS AND DECORATIVE ART

PROFESSOR BINNS.

MISS TOURTELLOTTE.

1. A course of lectures on the history and development of decorative art. The elements of beauty in form and decoration. The possibilities and limitations of clay in ornamental work. Application of clay to architectural adornment.

2. A course of instruction in mechanical drawing and drafting. General principles. Descriptive geometry and linear perspective. Intersection and development of geometrical surfaces, making of plans, elevations and details. Lettering.

3. A course of instruction in free-hand drawing. Outline drawing from models, charcoal drawing from plaster casts, pen drawing, water color, study from nature.

4. A course of instruction in decorative design. Elements of geometric ornament, applied design, original design.

5. A course of instruction in clay modeling and casting in plaster, creation and production of form, development of handles and embossments. Architectural modeling.

Attention will be given to the natural ability of each student, and specialization will be encouraged.

The school year begins Sept. 11th, 1900.

Letters of inquiry should be addressed to

Prof. Charles F. Binns, Director, Alfred, N. Y.

University Press, Alfred

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The New York State School

Of Clay-Working and Ceramics

Alfred, New York

1902-03

BOARD OF MANAGERS

(Appointed annually by Trustees of Alfred University)

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UNIVERSITY OF ILLINOIS

LIBRARY

BOOK CLASS VOLUME

CALENDAR

FIRST SEMESTER, 1902-1903

			1902
Registration, Entrance Examinations,	Tuesday,	Sept.	16
Instruction begins,	Wednesday Morning,	Sept.	17
Election Day,	**Tuesday,**	**Nov.**	**4**
Thanksgiving recess begins,	Wednesday evening,	Nov.	26
THANKSGIVING RECESS.			
Instruction resumed,	Monday morning,	Dec.	1
Holiday Recess begins,	Thursday evening,	Dec.	18
HOLIDAY RECESS.			
			1903
Instruction resumed,	Tuesday morning,	Jan.	6
Term examinations begin,	Monday,	Jan.	26
Examinations end, Semester ends,	Friday,	Jan.	30
MID-YEAR RECESS.			

SECOND SEMESTER

Instruction begins,	Wednesday morning,	Feb.	4
Lincoln's Birthday,	**Thursday,**	**Feb.**	**12**
Washington's Birthday,	**Sunday,**	**Feb.**	**22**
Spring Recess begins,	Wednesday evening,	April	8
SPRING RECESS.			
Instruction resumed,	Wednesday morning,	April	15
Memorial Day,	**Saturday,**	**May**	**30**
Examinations begin,	Monday,	June	15
Examinations end,	Friday,	June	19
Degrees conferred at University Commencement	Thursday,	June	25
SUMMER VACATION.			

FIRST SEMESTER, 1903-1904

Registration, Entrance Examinations,	Tuesday,	Sept.	15
Instruction begins,	Wednesday morning,	Sept.	16
Election Day,	**Tuesday,**	**Nov.**	**3**
Thanksgiving Recess begins,	Wednesday evening,	Nov.	25
THANKSGIVING RECESS.			
Instruction resumed,	Monday morning,	Nov.	30
Holiday Recess begins,	Tuesday evening,	Dec.	22
HOLIDAY RECESS.			
			1904
Instruction resumed,	Wednesday morning,	Jan	6
Term Examinations begin,	Monday,	Jan.	25
Term Examinations end,	Friday evening,	Jan.	29

The New York State School.

FACULTY

CHARLES F. BINNS, M. S., Director.

Professor of Ceramic Technology.

Superintendent Royal Porcelain Works, Worchester, England, 1897; Principal Technical School, Trenton, N. J., 1897-1900; Superintendent Ceramic Art Co., Trenton, N. J., 1898-1899; Vice President 1900, President 1901, American Ceramic Society.

ALPHEUS B. KENYON, M. S.,

Professor of Mathematics and Graphics.

ALBERT R. CRANDALL, Ph. D.,

Professor of Geology and Microscopy.

OTHO P. FAIRFIELD, B. A.,

Professor of English.

EDWARD S. BABCOCK, M. S.,

Professor of Chemistry and Physics.

ADELAIDE M. BLANCHARD,

Instructor in Graphics and Decorative Art.

CATHERINE F. CROCKER,

Instructor in Modern Languages.

GEORGE A. MAIN,

LINTON B. CRANDALL,

Assistants in Industrial Mechanics.

JUNIUS F. KREHBIEL,

Assistant in Technical Laboratories.

Some Alfred Pottery

THE NEW YORK STATE SCHOOL OF CLAY-WORKING AND CERAMICS

This School was established by chapter 383, Laws of New York State, 1900, which provides for the construction and equipment of a suitable building and for the maintenance of the school.

The demand for the school arose from the fact that the great utilitarian field occupied by clay wares is attracting public notice on every side. Clay in one form or another constitutes the great mass of modern fire-proof building material, and the larger part of general constructive material is derived from the same source.

The wisdom of locating the school at an established seat of learning and in close proximity to clay-working industries must be apparent to all.

No branch of study can stand alone. The student of clay-working should be educated in collateral departments of science and art. For this work Alfred University offers splendid advantages. Laboratories of chemistry and physics, libraries, museums of geology and natural history, workshops for manual training, and all the departments of liberal culture are available, so that the many and varied requirements of a complete education are fully met.

It is the purpose of the school to give a practical training in the technology of clay-working, neglecting neither the science nor the art. Attention is given to the improvement of methods of manufacture and the reduction of cost to the end that the resources of the State may be fully developed, and that within its borders may be manufactured the clay-wares both coarse and fine now brought from other states or countries at an enormous annual cost.

Turning the Forms

BUILDING AND EQUIPMENT

The building of the New York State School of Clay-Working and Ceramics has been especially designed and is located on land purchased for the purpose and deeded to the people of the State of New York. It is built of red brick and terra-cotta with gray trimmings and roofed with brown tile. It has a floor space of about thirteen thousand square feet, and a frontage of seventy-five feet.

In the lower story are located the heavy machinery for the manufacture of brick, tile, hollow blocks and roofing tile, the slip-making plant, cylinders for glaze preparation, and a workshop fitted with modern appliances for pottery and porcelain manufacture. There are also rooms for mold making and drying, and a damp cellar.

The motive power is supplied by a 36 h. p. Otto gas engine, and a 2 h. p. Rumsey gas engine; natural gas being available.

On the principal floor are located the executive offices, rooms for the Director, laboratories, and a class room. Here the experimental work is done.

The Technical laboratories are provided with small blungers and mills for working clay samples, small gas furnaces for fretting and fusing, and all the necessary apparatus for the physical testing of clay.

Ample provision has been made for the chemical testing of materials.

The art department of the school is placed on the second floor. Fine studios are arranged, provided with the facilities necessary for the practice of mechanical drawing, free-hand drawing and applied design. Adjoining these is the modeling room where, in addition to ornamental work in clay, the production of pure form will

Casting

be studied. To facilitate this work horizontal and vertical lathes are provided so that the student may be enabled to realize the ideas laid down upon paper. A large space is provided for a ceramic museum in which examples of clay work of every type may be studied.

Adjacent to the main building is the Kiln House, within which are two kilns; one for firing common wares at a low temperature, the other for firing fine wares at a high temperature.

In addition to this splendid equipment it is worthy of note that within a short distance of the school there are two plants in which are manufactured bricks by both the wet and dry processes, several styles of roofing tile, and quarries for floors and roofs. Here may be seen the actual working of manufacturing plants, and the use of at least three kinds of kilns, including a continuous kiln.

TUITION

Students who are residents of New York State are exempt from payment of tuition by the provisions of the act establishing the school.

To students from other states, an annual tuition fee of $50 for the technical courses and $40 for the Ceramic Art course will be charged.

Small laboratory fees to cover cost of materials and breakage are also required.

COURSES OFFERED

The course of study which leads to a degree extends over a period of four years, and embraces, together with the technology of clay-working, such subjects as are equivalent to the usual college course.

A short course of two years is also offered, which is specially designed to assist those having some practical experience in clay-working and who desire to supplement their knowledge with scientific method and research.

In the department of Ceramic Art a course is offered which is intended to qualify students as designers or artistic clay workers. For details see page 25.

Courses in special work may also be taken according to the time available.

BENEFITS TO BE DERIVED

The student who successfully pursues the course of instruction provided in this school will be able to take up the practical work of manufacturing clay wares. He will be able to lay out his plans, place his machinery, design his goods, shape his wares, and carry the whole matter to a successful conclusion.

It is difficult to conceive of any more attractive work than the solution of the problems in chemistry, physics, and art presented to the clay-worker. Furthermore, the field for skilled and educated men in this line is practically vacant. There is no calling in industrial work offering greater opportunities than are now presented to the educated ceramist.

Jiggering

ENTRANCE REQUIREMENTS

[Shorter Courses]

Candidates for admission to the two years' course must be at least 16 years of age and of good moral character. They must possess the ability to read and write good English and be proficient in arithmetic. Some knowledge of algebra, plane geometry and elementary physics is desirable.

Candidates for special courses may be admitted at the discretion of the Faculty upon giving evidence of earnest purpose and of ability to assimilate the instruction.

[Four Years' Course]

Candidates for admission to the four years' course must be at least fifteen years of age and of good moral character.

The New York State Regents' Academic Diploma is adopted as a general basis for estimating a preparatory course. It is assumed to embrace a training equivalent to a four years' course in the average Preparatory or High School.

The unit of measure adopted in preparatory work is the Regents' "count;" twelve of these represent a year's study in three subjects, and forty-eight are required for the Academic Diploma. One subject pursued a year is equivalent to four counts. The required counts are as follows:

English	8	counts.
Mathematics	10	"
Foreign Languages	12	"
Science	8	"
Drawing	2	"
Elective	8	"
Total	48	

Admission is gained either on certificate or on examination, as follows:

The Potter's Wheel

ADMISSION ON CERTIFICATE

Regents' Credentials. The credentials of the University of the State of New York are accepted instead of an examination in the subjects required for admission, so far as they cover these requirements. [For subjects see *Admission on Examination.*]

Principal's Certificate. Certificates are also received from Principals of Preparatory or High Schools, outside of New York State, provided such schools are known to the Faculty for thoroughness of instruction. Such certificate must specify, in connection with each subject, the extent to which it has been pursued, by giving the text-book used, the method of instruction, the amount of time given to it, the date of the final examination, the degree of the applicant's proficiency, and must clearly show that the student has met the requirements in every detail. The State School furnishes blank forms for such certificates upon application of principals of approved schools.

Principals of Preparatory Schools who desire to have their students admitted on certificate are invited to correspond with the Director.

ADMISSION ON EXAMINATION

Candidates who fail to present satisfactory certificates must pass a written examination in the required subjects. Examinations in all subjects required for admission are held at Alfred at the beginning of each year. Candidates must report at the Director's office and obtain permits for examination. The results of the examination may be obtained from the Director.

The subjects are as follows:

English Composition and Rhetoric. 4 counts. The candidate must be familiar with Elementary Rhetoric, both as a science and as an art. The study can be best pursued in connection with the study of Literature, from which may be obtained material for analysis and subjects for essays.

At the examination the candidate will be expected to correct and rewrite specimens of bad English, and to write an original essay of two hundred and fifty or three hundred words, on one of several subjects announced at the time of the examination. The subjects for 1903 will be taken from the following books: Hawthorne's Twice Told Tales; Addison's Sir Roger de Coverley Papers.

English Reading. 4 counts.

I. The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number set on the examination paper. The topics will be drawn from the following works:

1902—1905: Pope's Homer's Iliad, Books I, VI, XXII, XXIV; Addison's The De Coverley Papers; Coleridge's The Ancient Mariner; Goldsmith's The Vicar of Wakefield; George Elliot's Silas Marner; Tennyson's The Princess; Shakespeare's The Merchant of Venice; Scott's Ivanhoe.

The candidate is expected to read intelligently all the books prescribed. He should read them as he reads other books. He is not expected to know them minutely, but to have freshly in mind their most important parts. In every case the examiner will regard knowledge of the book as less important than ability to write English.

II. A certain number of books will be prescribed for careful study. This part of the examination will be upon subject-matter, literary form, and logical structure, and will also test the candidate's ability to express his knowledge with clearness and accuracy. The books prescribed for this part of the examination are as follows:

1902—1905: Shakespeare's Macbeth; Burke's Conciliation with American Colonies; Macaulay's Essays on Milton and Addison; Milton's Minor Poems.

Mathematics. 8 counts. Wentworth's New School Algebra, or its equivalent, including Fundamental Operations, Factoring, Divisors, Multiples, Fractions, Problems, Involution, Evolution, Theory of Exponents, Radicals, Quadratics, Ratio and Proportion.

Wentworth's Revised Plane Geometry, five books or their equivalent, including the Straight Line, Angle, Circle, Proportion, Similarity, and Areas.

Foreign Languages. 12 counts. Any two or more languages may be offered.

When German or French is offered, the candidate will be expected to have a practical knowledge of pronunciation, as well as a thorough mastery of grammatical forms and syntax, and to possess a familarity with the literature in proportion to the amount of work offered.

Science. 8 counts. Physiology—Martin's Human Body, Briefer Course or its equivalent.

Physical Geography—Houston's work or equivalent.

Physics—Avery's work or its equivalent.

Chemistry, Botany, and other Sciences may be offered.

Drawing. 2 counts. The elements of free hand drawing equivalent to a twenty weeks' course.

Electives. 10 counts. In addition to the above subjects the candidate must elect and offer other Preparatory or High School studies equivalent to 10 counts.

*Note—Candidates for admission may, in exceptional cases, offer equivalents as substitutes for the required studies, subject to the approval of the Director.

SENIOR THESIS

There is required of each candidate for a degree a thesis, for which credit is given, two hours in the first semester and three in the second semester of the Senior year. The title of the thesis must be chosen in the field of Ceramics not later than November 1, and must be approved by the Director. The thesis shall embody the results of actual independent research, and must be submitted for approval not later than June 1. A type-written copy must be deposited with the director.

DEGREES

Bachelor's Degree. Alfred University will confer upon students who satisfactorily complete the full course the degree of Bachelor of Science in Ceramics.

An Experiment in Brick

COURSES OF STUDY

REQUIRED STUDIES IN FOUR YEARS' COURSE.

Arabic numerals indicate the number of exercises per week. Roman numerals indicate the semester in which the courses will be given. All courses extend through the year except where marked I or II.

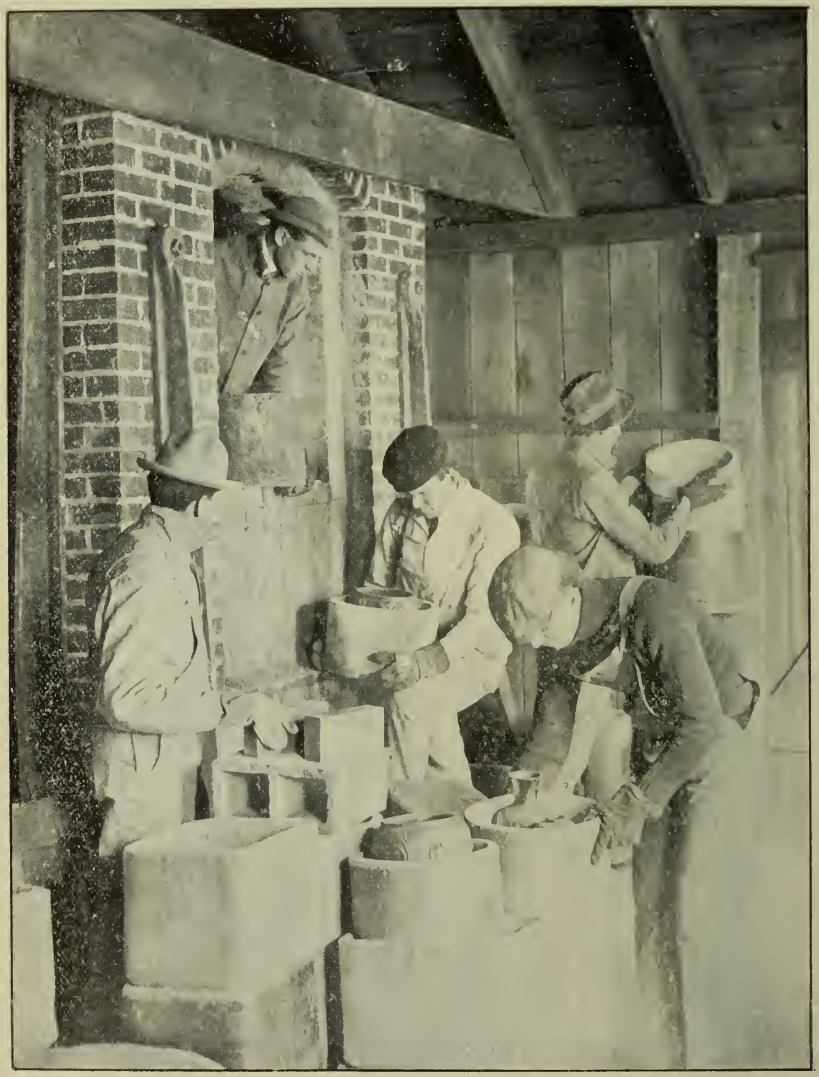
FRESHMAN YEAR.	SOPHOMORE YEAR.
Rhetoric, 2	Algebra, 2
Trigonometry, 3	Chemistry, 2
Chemistry, 3	German, 2
German, 3	Physics, 3
Drafting or Drawing, 2	Ceramics, 3 [theory]
Ethics, 1	Ceramics, 3 [laboratory]
Ceramics, 1 [laboratory]	Mechanics, 2
Mechanics, 2	

JUNIOR YEAR	SENIOR YEAR
Mathematics, 3	Drafting or Designs, 2
Drafting or design, 2	Geology, 2 [economic]
Geology, 3	Ceramics, 10
I Microscopy, 2	Thesis, 3
II Ceramic minerology, 2	
Ceramics, 3 [laboratory]	
Clay analysis, 2	

REQUIRED STUDIES IN TWO YEARS' COURSE.

FIRST YEAR.	SECOND YEAR.
Physics, 5	Graphics, 2
Mechanics, 2	Chemistry, 2
Chemistry, 3	Ceramics, 10
Ceramics, 4	Mechanics, 2
Ethics, 1	

For detailed description of the courses required in English, Mathematics, Chemistry, Physics, Mechanics, Geology, German, Ethics, and Microscopy, reference may be had to the Annual Catalogue of Alfred University, which will be sent on application.



Drawing a Kiln

DEPARTMENT OF TECHNOLOGY

PROFESSOR BINNS.

1. A course of lectures, with recitations, on the principles of calculation involved in ceramic composition. First semester. Sophomore year, three hours.

2. A course of lectures, with recitations and notes, on the methods of manufacture of clay wares, ancient and modern. Second semester. Sophomore year, three hours.

3. A course of lectures, with recitations and notes, on the mineralogy of clay. Second semester. Junior year, two hours.

4. A course of lectures, with recitations, on the technology of clay wares for special purposes. White wares and faience. Earthen ware, sanitary ware, once fired ware. Fire-proof and refractory ware. Hard and Soft Porcelain, Electrical insulating Ware. Senior year, two hours.

5. A course of laboratory demonstration and practice. Methods of manufacture. Elementary kiln work. Sophomore year, three hours.

6. A course of laboratory demonstration and practice. Mixing clay bodies and glazes. Chemical and mineral analysis of clays. Junior year, three hours.

7. Laboratory and workshop practice in continuation of course 6. Production of fine and special wares. Kiln construction and pyrometry. Senior year, eight hours.

Students in the short course will be admitted to any of the foregoing lectures and laboratory work at the discretion of the Faculty.

DEPARTMENT OF CLAY TESTING

PROFESSOR BINNS

PROFESSOR BABCOCK

The State School of Ceramics is specially fitted and the experts in charge are exceptionally well qualified for the professional examination and testing of clays for economic purposes. Such clays may be classified under the following heads:

(*a*) Kaolin, white burning residual clay.

(*b*) Kaolin, white burning, washed for market, used in the manufacture of pottery, porcelain and paper.

(*c*) Ball clay, white or cream burning, sedimentary clay of high plasticity, used in pottery manufacture.

(*d*) Stone ware clay, gray or cream burning, more or less sandy in character, used in stoneware manufacture.

(*e*) Fire clay, buff or white burning, refractory, used for manufacture of fire brick.

(*f*) Brick clay, including colored clays and shales, used for the manufacture of brick and tile of various qualities and descriptions.

For each of the above classes special tests are necessary, and the charges made are proportionate to the work required.

A report upon each sample will be furnished and must be understood to refer only to the sample submitted unless the experts are instructed to examine the deposit and prepare their own samples, in which case special charges will be made. The report includes chemical and physical tests, and rational analysis where necessary.

Advice as to washing or other preparation of the clay is also given, together with an opinion as to the industry to which the material may be applied.

CHARGES

Clays and shales indigenous to the State of New York will be tested without charge beyond the actual cost involved in the examination. Estimates can be obtained upon application.

For tests of samples from other states charges will be as follows:

For classes a, d, and e, per sample	$50 00
For classes b, c, and f, per sample	$25 00

All charges are payable in advance.

The sample submitted should not be less than five pounds in weight and must be forwarded express prepaid.

If the manipulation of bulk samples be desired the State School is prepared to undertake the experimental production of clay wares at reasonable rates.

A Class in Drawing

DEPARTMENT OF GRAPHICS AND DECORATIVE ART

PROFESSOR BINNS

PROFESSOR KENYON

MISS BLANCHARD

1. A course of lectures on the history and development of decorative art, The elements of beauty in form and decoration. The possibilities and limitations of clay in ornamental work. Application of clay to architectural adornment.

2. A course of instruction in mechanical drawing and drafting. General principles. Descriptive geometry and linear perspective. Intersection and development of geometrical surfaces, making of plans, elevations and details. Lettering.

3. A course of instruction in free-hand drawing. Outline drawing from models, charcoal drawing from plaster casts, water color, study from nature.

4. A course of instruction in decorative design. Elements of geometric ornament, applied design.

5. A course of instruction in clay modeling and casting in plaster, creation and production of form, development of handles and embossments. Architectoral modeling.

Attention will be given to the natural ability of each student, and specialization will be encouraged.

The Drafting Room

REGISTER OF STUDENTS

1902-1903

FOUR YEARS' COURSE

Junior

Krehbiel, Junius Frederick,	Delevan, N. Y.

Sophomore

Bailey, J Roy,	Woodhull, N. Y.
Binns, William Hugh Ferrar,	Alfred, N. Y.
Cox, Paul Ernest,	Crawfordsville, Ind.
Walrath, Fred E.,	Jasper, N. Y.

Freshman

Cowan, Reginald Guy,	Syracuse, N. Y.
Graves, Arthur C.,	Adams Center, N. Y.
Lewis, Welcome Babcock,	Adams Center, N. Y.
McGinnis, Harley P.,	Friendship, N. Y.
Pettit, Joseph F.,	Clifton Springs, N. Y.
Shannon, John E.,	Alfred, N. Y.
Turnbull, Lancelot,	East Liverpool, O.
West, Frederick Dalos,	Hornellsville, N. Y.

TWO YEAR COURSE

Case, Willis Whittier,	Washington, D. C.
Gamble, Charles H.,	Alfred, N. Y.
Manwaring, Floyd E.	Elton, N. Y.

CERAMIC ART COURSE

Hamilton, Bertha B.,	Alfred, N. Y.
Randolph, Sabella,	Alfred, N. Y.
Saunders, Miriam,	Rochester, N. Y.
Sherman, Olive Forbes,	Cowanesque, Pa.

SPECIAL WORK

Titsworth, Ferdinand L.	Dunellen, N. J.
Watson, C. Huber,	Cuba, N. Y.
Kawara, Saburo,	Tokio, Japan.

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THE NEW YORK STATE SCHOOL

OF CLAY-WORKING AND CERAMICS

ALFRED, NEW YORK

1904-1905

Board of Managers

(Appointed annually by Trustees of Alfred University)

BOOTHE C. DAVIS, *President*

JOHN J. MERRILL

ELWOOD E. HAMILTON

WILL R. CLARKE

WILLIAM H. CRANDALL

State School of Ceramics

Calendar

FIRST SEMESTER, 1904-1905

		1904
Registration, Entrance Examinations	Tuesday	Sept. 20
Instruction begins	Wednesday morning	Sept. 21
Election Day	**Tuesday**	**Nov. 8**
Thanksgiving Recess begins	Wednesday evening	Nov. 23
THANKSGIVING RECESS		
Instruction resumed	Monday morning	Nov. 28
Holiday Recess begins	Wednesday evening	Dec. 21
HOLIDAY RECESS		
		1905
Instruction resumed	Wednesday morning	Jan. 4
Semester Examinations begin	Monday	Jan. 23
Examinations end, Semester ends	Friday evening	Jan. 27
MID-YEAR RECESS		

SECOND SEMESTER

Instruction begins	Monday morning	Jan. 30
Washington's Birthday	**Wednesday**	**Feb. 22**
Spring Recess begins	Thursday evening	Mar. 30
SPRING RECESS		
Instruction resumed	Tuesday morning	April 11
Memorial Day	**Tuesday**	**May 30**
Examinations begin	Monday	June 12
Examinations end	Friday	June 16
Degrees conferred at University Commencement	Thursday	June 22
SUMMER VACATION		

FIRST SEMESTER, 1905-1906

Registration, Entrance Examinations	Tuesday	Sept. 19
Instruction begins	Wednesday morning	Sept. 20
Election Day	**Tuesday**	**Nov. 7**
Thanksgiving Recess begins	Wednesday evening	Nov. 29
THANKSGIVING RECESS		
Instruction resumed	Monday morning	Dec. 4
Holiday Recess begins	Wednesday evening	Dec. 20
HOLIDAY RECESS		
		1906
Instruction resumed	Wednesday morning	Jan. 3
Semester Examinations begin	Monday	Jan. 22
Examinations end, Semester ends	Friday evening	Jan. 26
MID-YEAR RECESS		
Instruction begins	Monday morning	Jan. 29

Faculty

CHARLES F. BINNS, M. S., Director,
Professor of Ceramic Technology.

ALPHEUS B. KENYON, M. S.,
Professor of Mathematics and Graphics.

CLAUDE I. LEWIS, B. S.,
Professor of Natural Science.

OTHO P. FAIRFIELD, B. A.,
Professor of English.

EDWARD S. BABCOCK, M. S.,
Professor of Chemistry and Physics.

ADELAIDE M. BLANCHARD,
Instructor in Art.

PAUL E. TITSWORTH, Ph. B.,
Instructor in Modern Languages.

LINTON B. CRANDALL, B. S.,,
ALLEN W. CORWIN,
Assistants in Industrial Mechanics.

A. L. WHITFORD,
Janitor and Machinist.

An Experiment in Brick

New York State School of Clay-Working and Ceramics

In the field of applied science and commercial engineering the subject of Clay-Working is becoming daily more important. To the architect and builder clay offers the most satisfactory fire-proof material, to the housewife pottery is indispensable and to the artist clay and clay-wares afford at once a facile means of expression and a prominent feature of home decoration.

The problems which confront the clay-worker are unique. He must learn to win his material economically from the earth, to shape his wares with due regard to both utility and art, to glaze or otherwise finish them in a satisfactory manner and to burn the whole successfully upon a large scale. His education must therefore be comprehensive and complete. He must, in a word, be a specialist and to this end the New York State School was established.

Chapter 383, Laws of New York State, 1900, provided for the construction and maintenance of the school and in order to secure the necessary facilities for collateral branches of study Alfred University was chosen as the location.

For this work the University offers great advantages. Laboratories of chemistry and physics, libraries, museums of geology and natural history, workshops for manual training and all the departments of liberal culture are available, so that the many and varied requirements of a liberal education are fully met.

The State of New York contains vast deposits of clays and shales at present lying dormant, it also contains large

numbers of young men and women who are seeking profitable employment. The work of the school is to bring these together. Neither the science nor the art is neglected. Attention is given to the improvements of methods of manufacture and the reduction of cost so that the resources of the state may be fully developed and that within its borders may be manufactured the clay-wares, both coarse and fine, necessary for its own consumption.

Building and Equipment

The building of the New York State School of Clay-Working and Ceramics has been especially designed and is located on land purchased for the purpose and deeded to the people of the State of New York. It is built of red brick and terra-cotta with gray trimmings and roofed with brown tile. It has a floor space of about thirteen thousand square feet, and a frontage of seventy-five feet.

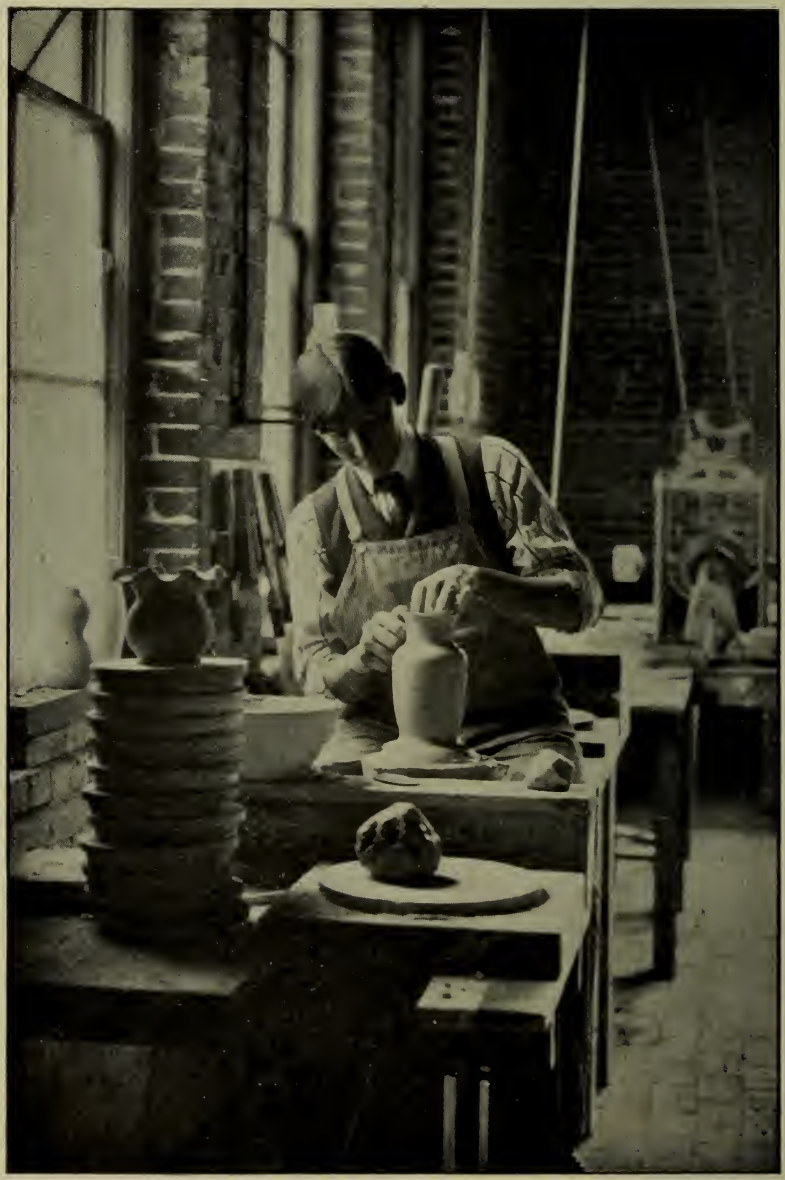
In the lower story are located the heavy machinery for the manufacture of brick, tile, hollow blocks and roofing tile, the slip-making plant, cylinders for glaze preparation, and a workshop fitted with modern appliances for pottery and porcelain manufacture. There are also rooms for mold making and drying, and a damp cellar.

The motive power is supplied by a 36 h. p. Otto gas engine, and a 2 h. p. Rumsey gas engine; natural gas being available.

On the principal floor are located the executive offices, rooms for the Director, laboratories, and a class room. Here the experimental work is done.

The Technical laboratories are provided with small blungers and mills for working clay samples, small gas furnaces for fritting and fusing, and apparatus for the testing of clay.

The art department of the school is placed on the



The Potter's Wheel

The Mold Shop

second floor. Studios are arranged, provided with the facilities necessary for the practice of mechanical drawing, free-hand drawing and applied design. Adjoining these is the modeling room where, in addition to ornamental work in clay, the production of pure form is studied. Space is provided for a ceramic museum in which examples of clay work of every type may be found.

Adjacent to the main building is the Kiln House, within which are two kilns; one for firing common wares at a low temperature, the other for firing fine wares at a high temperature.

In addition to this equipment it is worthy of note that within a short distance of the school there are two plants in which are manufactured bricks by both the wet and dry processes, several styles of roofing tile, and quarries for floors and roofs. Here may be seen the actual working of manufacturing plants, and the use of at least three kinds of kilns, including a continuous kiln.

Tuition

Students who are residents of New York State are exempt from payment of tuition by the provisions of the act establishing the school.

To students from other states, an annual tuition fee of $50 will be charged.

Small incidental fees to cover cost of materials and breakage are required.

Courses Offered

The courses of study which lead to the degree of B. S. extend over a period of four years and embrace, together with the science, technology and art special to clay-working, such subjects as are the equivalent of the usual college course. Certain subjects are required, but the technical work is elective as to the particular branch of ceramics to be followed.

The course in ceramic art is intended to fit the student for the designing and producing of artistic pottery. The course covers a wide field of art and letters in the belief that a successful artist must possess a liberal education.

For the accommodation of those desiring to qualify as teachers it is permitted to elect Psychology, History of Education and Pedagogy in place of other college subjects. An opportunity for practice teaching is afforded in the public schools of Alfred.

Students having a practical knowledge of clay-working will be received for short terms, and certificates will be given according to the work done.

Benefits of the School

The demand for trained clay-workers has grown to considerable proportions during the last few years. Capital is becoming more and more interested in the development of clay lands and shale banks; nor is there any likelihood that this interest will decrease.

On the other hand the number of men who have studied in the schools is very small compared with the openings to be filled. Hitherto, no student who has passed through the school successfully has remained unemployed, and the Director is continually in receipt of applications for persons qualified to fill responsible positions. Every effort is made by the faculty to place the

Any student not registering on the days set therefor will be charged a fee of two dollars for late registration.

The Glaze Laboratory

students in communication with manufacturers desiring to offer them employment.

The student successfully pursuing the technical course will be able, presuming that his personal capacity be good, to take up the practical work of manufacturing clay wares. He will have had experience with every description of clay, and with the minerals and oxides used in preparing bodies and glazes. He will have acquired a knowledge of machinery and kilns which he will find of the greatest value. In short, he will be a trained man as regards the problems of clay-working.

Students who conscientiously pursue the course in ceramic art will be able to design and make artistic pottery, preparing their own clays and compounding their own glazes, if necessary. Those who elect the normal course will be thoroughly equipped to teach not only clay-working, but drawing and design in schools.

Entrance Requirements

[Shorter Courses]

Candidates for admission to a short course must be at least sixteen years of age and must present certificates of good moral character. They must possess the ability to read and write good English and be proficient in arithmetic. Some knowledge of algebra, plane geometry and elementary physics is desirable.

Candidates for special courses may be admitted at the discretion of the Faculty upon giving evidence of earnest purpose and of ability to assimilate the instruction.

[Four Years' Ceramic Art Course]

For entrance to the course in ceramic art and normal study, a four years' academic diploma is required. The subjects taken may cover the usual academic range but should include Plane Geometry, English Composition, Rhetoric and English Reading.

[Four Years' Technical Course]

Candidates for admission to the four years' technical course must be at least fifteen years of age and must present certificates of good moral character.

The New York State Regents' Academic Diploma is adopted as a general basis for estimating a preparatory course. It is assumed to embrace a training equivalent to a four years' course in the average Preparatory or High School.

The unit of measure adopted in preparatory work is the Regents' "count;" twelve of these represent a year's study in three subjects, and forty-eight are required for the Academic Diploma. One subject pursued a year is equivalent to four counts. The required counts are as follows:

Alfred Pottery, Built and Thrown

English (not including Advanced English)	8	counts
Mathematics	12	"
Foreign Languages	12	"
Science	8	"
Drawing	2	"
Elective	6	"
Total	48	

Admission is gained either on certificate or on examination, as follows:

Admission on Certificate

REGENTS' CREDENTIALS. The credentials of the University of the State of New York are accepted instead of an examination in the subjects required for admission, so far as they cover these requirements. [For subjects see *Admission on Examination.*]

PRINCIPAL'S CERTIFICATE. Certificates are also received from Principals of Preparatory or High Schools, outside of New York State, provided such schools are known to the Faculty for thoroughness of instruction. Such certificate must specify, in connection with each subject, the extent to which it has been pursued, by giving the text-book used, the method of instruction, the amount of time given to it, the date of the final examination, the degree of the applicant's proficiency, and must clearly show that the student has met the requirements in every detail. The State School furnishes blank forms for such certificates upon application of Principals of approved schools.

Principals of Preparatory Schools who desire to have their students admitted on certificate are invited to correspond with the Director.

Admission on Examination

Candidates who fail to present satisfactory certificates must pass a written examination in the required subjects. Examinations in all subjects required for admission are held at Alfred at the beginning of each year. Candidates

must report at the Director's office and obtain permits for examination. The results of the examination may be obtained from the Director.

The subjects are as follows:

ENGLISH COMPOSITION AND RHETORIC. 4 counts. The candidate must be familiar with Elementary Rhetoric, both as a science and as an art. The study can be best pursued in connection with the study of Literature, from which may be obtained material for analysis and subjects for essays.

At the examination the candidate will be expected to correct and rewrite specimens of bad English, and to write an original essay of two hundred and fifty or three hundred words, on one of several subjects announced at the time of the examination. The subjects for 1904–05 will be taken from the following books: Hawthorne's Twice Told Tales; Addison's Sir Roger de Coverley Papers.

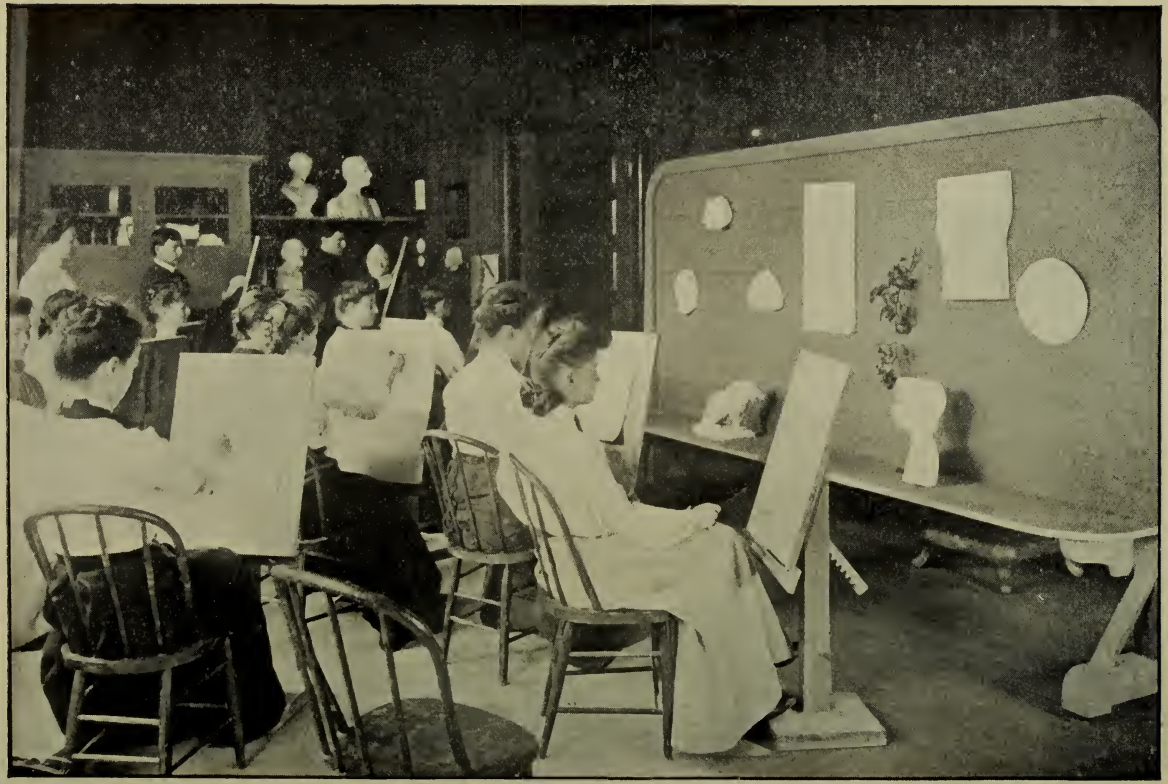
ENGLISH READING. 4 counts.

I. The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number set on the examination paper. The topics will be drawn from the following works:

1905: Addison's The de Coverly Papers; Carlyle's Essay on Burns; Coleridge's The Ancient Mariner; Eliot's Silas Marner; Goldsmith's The Vicar of Wakefield; Lowell's The Vision of Sir Launfal; Scott's Ivanhoe; Shakespeare's The Merchant of Venice; Shakespeare's Julius Cæsar; Tennyson's The Princess.

The candidate is expected to read intelligently all the books prescribed. He should read them as he reads other books. He is not expected to know them minutely, but to have freshly in mind their most important parts. In every case the examiner will regard knowledge of the book as less important than ability to write English.

II. A certain number of books is prescribed for careful study. This part of the examination will be upon



A Class in Drawing

subject-matter, literary form, and logical structure, and will also test the candidate's ability to express his knowledge with clearness and accuracy. The books prescribed for this part of the examination are as follows:

1905: Shakespeare's Macbeth; Burke's Conciliation with American Colonies; Macaulay's Essays on Milton and Addison; Milton's Minor Poems.

MATHEMATICS. 12 counts. Wentworth's New School Algebra, or its equivalent, including fundamental operations, factoring, divisors, multiples, fractions, problems, involution, evolution, theory of exponents, radicals, quadratics, ratio and proportion.

Wentworth's Revised Plane Geometry, five books or their equivalent, including the straight line, angle, circle, proportion, similarity, and areas.

Solid Geometry and Trigonometry.

FOREIGN LANGUAGES. 12 counts. Any two or more languages may be offered.

SCIENCE. 8 counts. Physiology—Martin's Human Body, Briefer Course or its equivalent.

Physical Geography—Houston's work or equivalent.

Physics—Avery's work or its equivalent.

Chemistry, Botany, and other Sciences may be offered.

DRAWING. 2 ccunts. The elements of free hand drawing equivalent to a twenty weeks' course.

ELECTIVES. 6 counts. In addition to the above subjects the candidate must elect and offer other Preparatory or High School studies equivalent to 10 counts.

*NOTE—Candidates for admission may, in exceptional cases, offer equivalents as substitutes for the required studies, subject to the approval of the Director.

Senior Thesis

There is required of each candidate for a degree a thesis, for which credit is given, two hours in the first semester and three in the second semester of the Senior year. The title of the thesis must be chosen in the field of Ceramics not later than November 1, and must be approved by the Director. The thesis shall embody the results of actual independent research, and must be submitted for approval not later than June 1. A type-written copy must be deposited with the Director.

Degrees

BACHELOR'S DEGREE. Alfred University will confer upon students who satisfactorily complete a full course the degree of Bachelor of Science.

Courses of Study

Four Years' Technical Course

Arabic numerals indicate the number of exercises per week. Roman numerals indicate the semester in which the courses will be given. All courses extend through the year except where marked I or II.

FRESHMAN YEAR.	
English	3
German	3
Chemistry	3
Algebra	2
Laboratory	2
Workshop	2
	15

SOPHOMORE YEAR.	
English	2
German	2
Chemistry	2
Physics	3
Ceramic Theory	2
Laboratory	2
Workshop	2
	15

JUNIOR YEAR	
Economic Geology	2
Mineralogy	2
Drafting	2
Clay Analysis	2
Laboratory	4
Elective	3
	15

SENIOR YEAR	
Advanced Analysis	2
Drafting	2
Laboratory	6
Thesis	3
Elective	2
	15

The Modeling Room

Four Years' Course in Ceramic Art

FRESHMAN YEAR		SOPHOMORE YEAR	
English	3	English	2
English History	3	Zoology	3
Chemistry	3	Botany	2
Drafting or Workshop	2	Ceramic theory	2
Art Studios	6	Laboratory	2
		Art Studios	6
	17		17
JUNIOR YEAR		SENIOR YEAR	
American History	2	History of Art	3
Shakespeare	3	Ceramic Art	1
European History	3	Laboratory	2
Laboratory	3	Art Studios	8
Art Studios	6	Thesis	3
	17		17

For detailed description of the courses required in English, Mathematics, Chemistry, Physics, Mechanics, Geology and German, reference may be had to the Annual Catalogue of Alfred University, which will be sent on application.

Department of Technology

Professor Binns

1. A course of lectures, with recitations, on the principles of calculation involved in ceramic composition. First semester. Sophomore year, two hours.

2. A course of lectures, with recitations and notes, on the methods of manufacture of clay wares, ancient and modern. Second semester. Sophomore year, two hours.

3. A course of lectures, with recitations and notes, on the mineralogy of clay. Junior year, two hours.

4. A course of lectures, with recitations, on the technology of clay wares for special purposes. White wares, faience, earthenware, sanitary ware, once fired ware.

Fire-proof and refractory ware. Hard and Soft Porcelain, Electrical insulating Ware. Senior year, two hours.

5. A course of laboratory demonstration and practice. Methods of manufacture. Elementary kiln work. Sophomore year, two hours.

6. A course of laboratory demonstration and practice. Mixing clay bodies and glazes. Chemical and mineral analysis of clays. Junior year, four hours.

7. Laboratory and workshop practice in continuation of course 6. Production of fine and special wares. Kiln construction and pyrometry. Senior year, six hours.

Students in the short course will be admitted to any of the foregoing lectures and laboratory work at the discretion of the Faculty.

Department of Clay Testing

Professor Binns
Professor Babcock

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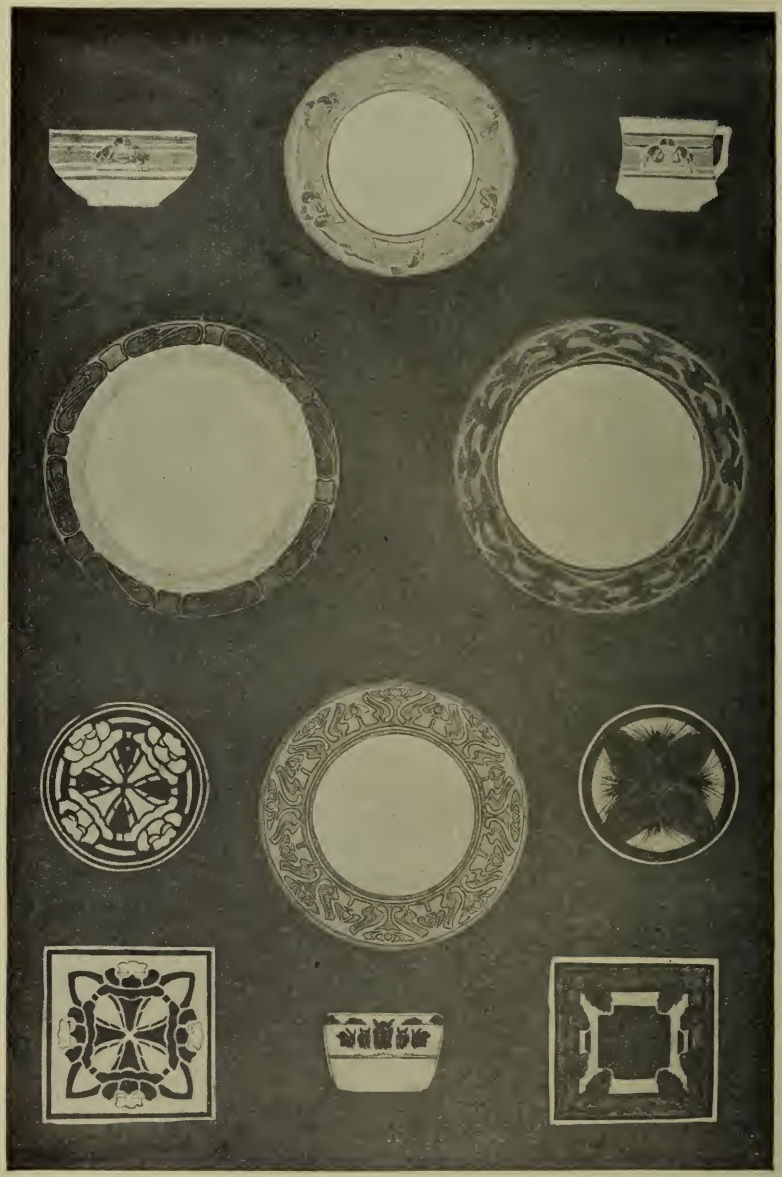

Pottery Designs

sary, and the charges made are proportionate to the work required.

A report upon each sample will be furnished and must be understood to refer only to the sample submitted unless the experts are instructed to examine the deposit and prepare their own samples, in which case special charges will be made. The report includes chemical and physical tests, and rational analysis where necessary.

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The sample submitted should not be less than five pounds in weight and must be forwarded express prepaid.

If the manipulation of bulk samples be desired the State School is prepared to undertake the experimental production of clay wares at reasonable rates.

Department of Mechanical Drawing

Professor Kenyon

Miss Blanchard

1. A course of instruction in mechanical drawing, general principles, and use of instruments.

2. Descriptive geometry, orthographic projection,

projection of shadows, linear perspective, intersection and development of geometrical surfaces.

3. Making of plans, elevations and details, lettering, machine drawing and the making of blue prints.

Department of Ceramic Art

Professor Binns
Miss Blanchard

The college subjects in this course are intended to afford the student a grasp of the history of the world with its progress in culture. With this view a close study of the history of art is expected. Lectures on the elements of beauty in form and decoration, and on the possibilities and limitations of clay in ornamental work are given at the same time as the studio work.

1. A course of instruction in freehand drawing from casts, nature, and life, in pencil and charcoal.

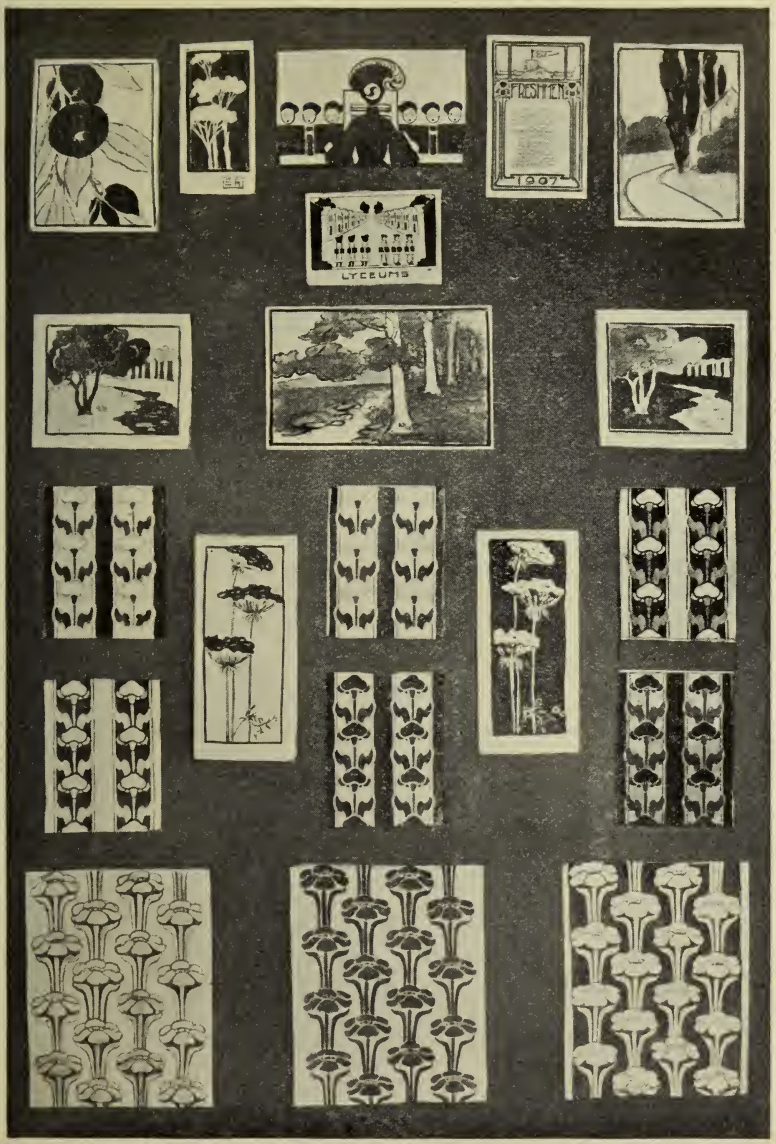
2. A course of instruction in composition and design. The study of beauty and the principles leading to its expression. The designing of pottery.

3. A course of instruction in clay modeling from casts, nature and life. Modeling of architectural terra cotta. Building of pottery forms. Casting in plaster.

4. A course of instruction in painting in oils and water color. (Course 1 is a preliminary requirement.)

Attention will be given to the natural ability of each student and specialization will be encouraged.

Students who have already taken a college course or its equivalent may devote their entire time to the study of ceramic art at the discretion of the faculty.



Class Work in Composition and Design

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1906/07

THE LIBRARY
OF THE
UNIVERSITY OF

THE NEW YORK STATE SCHOOL

OF CLAY-WORKING AND CERAMICS

ALFRED, NEW YORK

1906--1907

Board of Managers

(Appointed annually by Trustees of Alfred University)

BOOTHE C. DAVIS, *President*

JOHN J. MERRILL

WILL R. CLARKE

ELWOOD E. HAMILTON

WILLIAM H. CRANDALL

The New York State School

Calendar

FIRST SEMESTER, 1906–1907

		1906
Registration, Entrance Examinations	Tuesday	Sept. 18
Instruction begins	Wednesday morning	Sept. 19
Election Day	**Tuesday**	**Nov. 6**
Thanksgiving recess begins	Wednesday evening	Nov. 28
THANKSGIVING RECESS		
Instruction resumed	Monday morning	Dec. 3
Holiday Recess begins	Wednesday evening	Dec. 19
HOLIDAY RECESS		
		1907
Instruction resumed	Thursday morning	Jan 3
Semester Examinations begin	Monday	Jan. 21
Examinations end, Semester ends	Friday	Jan. 25
MID YEAR RECESS		

SECOND SEMESTER, 1906–1907

Instruction begins	Monday morning	Jan. 28
Washington's Birthday	**Friday**	**Feb. 22**
Spring Recess begins	Thursday evening	Mar. 28
SPRING RECESS		
Instruction resumed	Tuesday morning	Apr. 2
Examinations begin	Tuesday	May 28
Memorial Day	**Thursday**	**May 30**
Examinations end	Tuesday	June 4
Degrees conferred at University Commencement	Thursday	June 6
SUMMER VACATION		

FIRST SEMESTER, 1907–1908

		1907
Registration, Entrance Examinations	Tuesday	Sept. 17
Instruction begins	Wednesday morning	Sept. 18
Election Day	**Tuesday**	**Nov. 5**
Thanksgiving recess begins	Wednesday evening	Nov. 27
THANKSGIVING RECESS		
Instruction resumed	Monday morning	Dec. 2
Holiday Recess begins	Friday evening	Dec. 20
HOLIDAY RECESS		
		1908
Instruction resumed	Monday morning	Jan. 6
Semester Examinations begin	Monday	Jan. 20
Examinations end, Semester ends	Friday evening	Jan. 24
MID-YEAR RECESS		

SECOND SEMESTER, 1907–1908

Instruction begins	Monday morning	Jan. 27

Faculty

CHARLES F. BINNS, Sc. M., Director,
Professor of Ceramic Technology.

ALPHEUS B. KENYON, Sc. D.,
Professor of Mathematics and Graphics.

ALBERT W. KELLEY, Sc. D., M. D.,
Professor of Natural Science.

OTHO P. FAIRFIELD, A. M.,
Professor of English.

WENDELL G. WILCOX, Ph. M.,
Professor of Chemistry and Physics.

EDITH CLARE PUTNAM,
Instructor in English.

ALICE L. UPTON,
Instructor in Art.

PAUL E. TITSWORTH, Ph. B.,
Instructor in Modern Languages.

R. G. COWAN,
Assistant in Chemistry.

CHARLES W. CLARKE,
ORSON A. CARNAHAN,
Assistants in Industrial Mechanics.

A. L. WHITFORD,
Janitor and Machinist.

New York State School of Clay-Working and Ceramics

In the field of applied science and commercial engineering the subject of Clay-Working is becoming daily more important. To the architect and builder clay offers the most satisfactory fire-proof material, to the housewife pottery is indispensable and to the artist clay and clay-wares afford at once a facile means of expression and a prominent feature of home decoration.

The problems which confront the clay-worker are unique. He must learn to win his material economically from the earth, to shape his wares with due regard to both utility and art, to glaze or otherwise finish them in a satisfactory manner and to burn the whole successfully upon a large scale. His education must therefore be comprehensive and complete. He must, in a word, be a specialist, and to this end the New York State School was established.

Chapter 383, Laws of New York State, 1900, provided for the construction and maintenance of the school and in order to secure the necessary facilities for collateral branches of study Alfred University was chosen as the location.

For this work the University offers great advantages. Laboratories of chemistry and physics, libraries, museums of geology and natural history, workshops for manual training and all the departments of general culture are available, so that the many and varied requirements of a liberal education are fully met.

The State of New York contains vast deposits of clays and shales at present lying dormant, it also contains large

numbers of young men and women who are seeking profitable employment. The work of the school is to bring these together. Neither the science nor the art is neglected. Attention is given to the improvement of methods of manufacture and the reduction of cost so that the resources of the state may be fully developed and that within its borders may be manufactured the clay-wares, both coarse and fine, necessary for its own consumption.

Building and Equipment

The building of the New York State School of Clay-Working and Ceramics has been especially designed and is located on land purchased for the purpose and deeded to the people of the State of New York. It is built of red brick and terra-cotta with gray trimmings and roofed with brown tile. It has a floor space of about thirteen thousand square feet, and a frontage of seventy-five feet.

In the lower story are located the heavy machinery for the manufacture of brick, tile, hollow blocks and roofing tile, the slip-making plant, cylinders for glaze preparation, and a workshop fitted with modern appliances for pottery and porcelain manufacture. There are also rooms for mold making and drying, and a damp cellar.

The motive power is supplied by a 36 h. p. Otto gas engine, and a 6 h. p. Fairbanks gas engine; natural gas being available.

On the principal floor are located the executive offices, rooms for the director, laboratories, and a class room.

The technical laboratories contain the following apparatus and appliances: small blungers for samples, ball mills for grinding. a Case crusher, a power blower, four gas furnaces, an air brush, an electric furnace, dynamo for the same, cement testing machine, gas analysis apparatus, elutriation apparatus, draft meter, pyrometer, polarizing microscope, scales and balances.

A Class in Drawing

The art department of the school is placed on the second floor. Studios are arranged, provided with the facilities necessary for the practice of mechanical drawing, free-hand drawing and applied design. Adjoining these is the modeling room where, in addition to ornamental work in clay, the production of pure form is studied. Space is provided for a ceramic museum in which examples of clay work of every type may be found.

Adjacent to the main building is the kiln house, within which are two kilns; one for firing common wares at a low temperature, the other for high temperature work.

Within a short distance of the school there are two plants in which are manufactured bricks by both the wet and dry processes, several styles of roofing tile, and quarries for floors and roofs. Here may be seen the actual working of manufacturing plants, and the use of at least three kinds of kilns, including a continuous kiln.

Courses Offered

The courses of study which lead to a degree extend over a period of four years and embrace, together with the science, technology and art special to clay-working, such subjects as are the equivalent of the usual college course. Certain subjects are required, but the ceramic work is elective as to the particular branch of clay working to be followed.

The technical course is designed to qualify men to occupy positions as superintendents, scientific experts and ceramic chemists.

The course in ceramic art is intended to fit the student for the designing and producing of artistic pottery. The course covers a wide field of art and letters in the belief that a successful artist must possess a liberal education.

For the accommodation of those desiring to qualify as teachers it is permitted to elect psychology, history of

education and pedagogy in place of other college subjects. An opportunity for practice teaching is afforded in the public schools of Alfred.

Students having a practical knowledge of clay-working will be received for short terms, and certificates will be given according to the work done.

Benefits of the School

The demand for trained clay-workers has grown to considerable proportions during the last few years. Capital is becoming more and more interested in the development of clay lands and shale banks; nor is there any likelihood that this interest will decrease.

On the other hand the number of men who have studied in schools is very small compared with the openings to be filled. Hitherto, no student who has passed through the school successfully has remained unemployed, and the director is continually in receipt of applications for persons qualified to fill responsible positions. Every effort is made by the faculty to place the students in communication with manufacturers desiring to offer them employment.

The student successfully pursuing the technical course will be able, presuming that his personal capacity be good, to take up the practical work of manufacturing clay wares. He will have had experience with every description of clay, and with the minerals and oxides used in preparing bodies and glazes. He will have acquired a knowledge of machinery and kilns which he will find of the greatest value. in short, he will be a trained man as regards the problems of clay-working.

Students who conscientiously pursue the course in ceramic art will be able to design and make artistic pottery, preparing their own clays and compounding their own glazes, if necessary. Those who elect normal studies will be thoroughly equipped to teach not only clay-working, but drawing and design in schools.

Physical Training

There are two gymnasiums in connection with Alfred University. The women have a large, well ventilated room on the third floor of the Ladies Hall, equipped with apparatus for light gymnastics. The gymnasium for men is equipped with chest weights, dumb bells, wands, Indian clubs, horizontal and parallel bars, rings, poles, and floor mats. A dressing-room with individual lockers is provided. Through the generosity of a member of the student-body a well equipped bath room with shower-baths has recently been added to the facilities of the gymnasium. Each gymnasium is in charge of an instructor. All students, unless excused by the instructor on the advice of a physician, are required to do two semester hours of work during the freshman year, under the direction of the instructor in physical training.

Outdoor Sports are in the immediate charge of the athletic association of Alfred University which has a football team playing under inter-collegiate rules, a base-ball nine, and a basketball team. The tennis club, which is provided with excellent courts, maintains an annual tournament. Athletics, however, are not carried to extremes. The committee on athletics from the faculty, and the graduate manager, exercise general supervision, for it is the purpose of the school to give due attention to the physical welfare of its students and at the same time keep the physical in such relations as will be consistent with intellectual and moral development.

Fees per Semester

TUITION AND INCIDENTAL FEE (Except to residents of New York State)	$25 00
READING ROOM FEE	30
EXTRAS, for use of instruments and laboratory materials:	
Gymnasium fee (all Freshmen, and others taking instruction)	1 00
Surveying	4 00
Elementary Chemistry	4 00

Blowpipe Analysis and Mineralogy	4 00
Quantitative Analysis, Advanced Quantitative Analysis or Clay Analysis	6 00
Qualitative Analysis	7 00
Organic Chemistry	5 00
Physics, Laboratory	5 00
Botany or Zoology	4 00
Entomology	2 00
Physiology	1 00
Shop Fee	4 00
Art Materials	1 00
GRADUATION FEE	5 00

A rebate is granted of any portion of the fees for chemical laboratory remaining unused at the end of the semester.

Special students taking fewer than eight exercises per week will be charged three dollars for each semester hour.

Bills will be presented soon after the beginning of each semester and must be paid at the office of the treasurer before the third Friday of the semester.

Terms and Vacations

The school year consists of two terms, or semesters, of about eighteen weeks each. There is a recess at Thanksgiving, extending from Wednesday evening until Monday morning following; a vacation at the Holidays of about two weeks; a short recess at Easter time; and a summer vacation of about fifteen weeks.

Class Exercises

The class exercise period is one hour in length, in laboratory work, however, the class exercise continues through two hours. There are no class exercises on Saturday or Sunday. The schedule of recitations is fixed by the faculty. Each student is expected to have at least fifteen exercises per week. Students who take more than seventeen exercises weekly must maintain an average standing of ninety per cent and obtain the consent of the director. Any student who fails to attain a standing of at least seventy-five per cent in a given subject will not receive credit in that subject.

Dry-Press Brick

Unit of Measure or Credit

One class exercise per week for one term, or semester, is taken as the unit of measure or credit, and is termed a semester hour. In each course one hundred and twenty semester hours are required.

Absences and Excuses

Excuses for absence from class exercises are made to the instructor in charge of the exercise. One per cent is deducted from the standing in any subject for each unexcused absence. Two tardy marks count as one absence. Any student absent from recitations more than three times for each semester hour's credit given for any course, shall forfeit his right to receive credit for that course except by vote of the faculty.

Examinations

Final examinations are held at the close of each semester in addition to occasional written tests during the semester. Fees will be charged for all examinations taken by those not regular members of classes, or at other times than those appointed for the class examinations.

Registration

All students will meet the director at the office for registration on the first day of the college year; and students entering at the beginning of the second semester will register on the first day thereof. Any student not registering on the day set therefor will be charged a fee of two dollars for late registration.

Admission

Candidates for admission to the freshman class must be at least fifteen years of age and must present certificate of good moral character. The particular requirements for entrance are explained below. The unit of measure in estimating preparatory work is the New York State regents "count," which represents one recitation per week for one year. All regents counts obtained before June 1, 1906, will be accepted at 25 per cent increase above their recorded value.

Entrance Requirements

[a] To the Technical Course

ENGLISH. Candidates prepared in regents' schools must have 12 counts in academic English. These must include the reading prescribed for entrance by the college associations of the Middle and of the Eastern States.

Candidates prepared in other than regents' schools must present certificates that they have devoted the equivalent of not less than four recitation periods a week for three years to the study of English in the high school. This study must include the reading course prescribed for entrance by the various college associations which is as follows:

Reading in 1907 and 1908: Shakspere's Macbeth and The Merchant of Venice; the Sir Roger de Coverly Papers; Irving's Life of Goldsmith; Coleridge's The Ancient Mariner; Scott's Ivanhoe and The Lady of the Lake; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Lowell's The Vision of Sir Launfal; George Eliot's Silas Marner.

Study and practice for 1908: Shakespere's Julius Cæsar; Milton's L'allegro, Il penseroso, Comus, and Lycidas; Burke's Speech on Conciliation with America; Macaulay's Essay on Milton and Life of Johnson.

MATHEMATICS, 14 counts, viz: Elementary Algebra including fundamental operations, factoring, fractions, ratio, proportion, radicals, quadratics; Plane Geometry, including the straight line, angle, circle, proportion, similarity, and areas. Solid Geometry and Plane Trigonometry.

FOREIGN LANGUAGES. 15 counts. Any one or two languages may be offered. When Greek is offered for entrance to this course, it may consist of part or all of the amount required for entrance to the classical course.

When Latin is offered not less than ten counts will be accepted.

When German, French or Spanish is offered, the candidate will be expected to have a practical knowledge of pronunciation, as well as a thorough mastery of grammatical forms and syntax, and to possess a familiarity with the literature in proportion to the amount of work offered.

DRAWING. 3 counts. A half-year's course in Free Hand Drawing.

SCIENCE. 10 counts. Biology, Physical Geography, Physics, Chemistry. Any two may be offered.

ELECTIVES. 10 counts. In addition to the above subjects the candidate must elect and offer other preparatory or high school studies equivalent to ten counts.

SUMMARY

English	12 counts.
Mathematics	14 "
Foreign Languages	15 "
Drawing	3 "
Science	10 "
Elective	10 "
Total	64

[b] To the Art Course

For entrance to the course in ceramic art and normal study the requirements are those admitting to either of the courses in Alfred University.

NOTE.—Candidates for admission to any of the above courses, may, in exceptional cases, offer equivalents as substitutes for the required studies subject to the approval of the director.

Admission is gained either on certificate or on examination, as follows:

Admission on Certificate

REGENTS' CREDENTIALS. The credentials of the University of the State of New York are accepted instead of an examination in the subjects required for admission, so far as they cover these requirements. [For description of subjects. see *Entrance Requirements.*]

PRINCIPAL'S CERTIFICATE. Certificates are also received from principals of preparatory or high schools outside of New York state, provided such schools are known to the faculty for thoroughness of instruction. Such certificate must specify, in connection with each subject, the extent to which it has been pursued, by giving the text-book used, the method of instruction, the amount of time given to it, the date of the final examination, the degree of the applicant's proficiency, and must clearly show that the student has met the requirements in every detail. The school furnishes blank forms for such certificates upon application of principals of approved schools.

Principals of preparatory schools who desire to have their students admitted on certificate are invited to correspond with the director.

Admission on Examination

Candidates who fail to present satisfactory certificates must pass a written examination in the required subjects. Examinations in all subjects required for admission are

The Modeling Room

held at Alfred at the beginning of the year. Candidates must report at the director's office and obtain permits for examination The result of the examination may be obtained from the director.

Conditioned Students

Under the provisions of section 59 of the ordinances of the University of the State of New York no student can enter the freshman class conditioned in more than three academic subjects. These conditions must be removed within one year. The text of the ordinance is as follows:

"§ 59 **Degree Preliminaries.** No degree shall be conferred on students matriculating after Jan. 1, 1905, for completion of a course of study or on examination, unless the candidate has as a preliminary general education at least a four-year high school course or its full equivalent as determined by the University rules. Satisfactory evidence of such preliminary education must be offered before beginning the course of study for the degree, and any condition for deficiency (which must not exceed three academic subjects) must be made up within one year."

Admission to Advanced Standing

Students from other schools, having a course equivalent to that of the New York State School, may enter at the point from which they take dismissal, upon presentation of satisfactory certificates of standing and character, including an honorable dismissal.

Senior Thesis

There is required of each candidate for a degree a thesis, for which credit is given, two hours in the first semester and three in the second semester of the Senior year. The title of the thesis must be chosen in the field of Ceramics not later than November 1, and must be approved by the director. The thesis shall embody the results of actual independent research, and must be submitted for approval not later than June 1. A type-written copy must be deposited with the director.

Graduation

While no student will be permitted to graduate with a smaller credit than one hundred and twenty semester hours, four full years of resident work will be required in either course. Upon students who satisfactorily complete the technical course Alfred University will confer the degree of Bachelor of Science and upon students who satisfactorily complete the course in Ceramic Art the degree of Bachelor of Philosophy.

Courses of Study

The studies in the Freshman year are required. Those of the Sophomore, Junior and Senior years are elective in part, but every student is expected to cover as far as possible the subjects indicated.

FRESHMAN YEAR

TECHNICAL COURSE		ART COURSE	
English	3	English	3
Foreign Language	4	Foreign Language	4
Chemistry	3	Chemistry	3
Algebra	2	Mathematics	3
Laboratory	2	Art Studios	3
Woodshop	2		
	16		16

Students in the technical course will take ceramic technology as major subject and will elect as minors, chemistry with either mathematics or a foreign language.

Students in the art course will take ceramic art as major, and will elect as first minor, history or philosophy, and as second minor, natural science or mathematics.

The major subject must be pursued at least three hours per week throughout two years and each minor subject three hours per week for one year.

RECOMMENDED SUBJECTS

TECHNICAL COURSE	ART COURSE
English (2)	English (2)
French (2)	Zoology (1)
German (2a)	Botany (2)
Chemistry (2)	French (2)
Chemistry (3)	German (2a)
Physics (2)	Ceramic Theory
Physics (3)	Drawing
Ceramic Theory	Design
Machine Shop	Modeling
Ceramic Laboratory	Chemistry (3)
Geology (8)	Ceramic Laboratory
Economic Geology (9)	History (1)
Mineralogy of Clay	" (2)
Chemistry (6)	" (3)
German (2b)	Logic (1)
Graphics	Psychology (2)
Surveying (4)	History of Education (4)
Analytic Geometry (6)	Philosophy (3)
Advanced Ceramics	History of Art
Chemistry (7)	English (12)
Chemistry (8)	

The numbers in brackets refer to the courses described in the catalogue of Alfred University to which reference should be made.

Department of Technology

Professor Binns

1. A course of lectures, with recitations, on the principles of calculation involved in ceramic composition. First semester. Sophomore year, two hours.

2. A course of lectures, with recitations and notes, on the methods of manufacture of clay wares, ancient and modern. Second semester. Sophomore year, two hours.

3. A course of lectures, with recitations and notes, on the mineralogy of clay. Junior year, two hours.

4. A course of lectures, with recitations, on the technology of clay wares for special purposes. White wares, faience, earthenware, sanitary ware, once fired ware, fireproof and refractory ware, hard and soft porcelain, electrical insulating ware. Senior year, two hours.

5. A course of laboratory demonstration and practice.

Methods of manufacture. Elementary kiln work. Sophomore year, two hours.

6. A course of laboratory demonstration and practice. Mixing clay bodies and glazes. Chemical and mineral analysis of clays. Junior year, four hours.

7. Laboratory and workshop practice in continuation of course 6. Production of fine and special wares. Kiln construction and pyrometry. Senior year, six hours.

Students in the short course will be admitted to any of the foregoing lectures and laboratory work at the discretion of the faculty.

Department of Chemistry

Professor Wilcox

Mr. Cowan

1. General Chemistry.—For beginners. This course or its equivalent is required of ceramic students and of major students in chemistry. Two recitations or lectures a week and one two-hour laboratory period. Three hours. Recitations. M., F., 1:30. Laboratory, Sec. A, W., 1:30–3:30, Sec. B, W., 3:30-5:30.

2. Advanced Inorganic Chemistry. This course takes up a more detailed consideration of inorganic chemistry than course 1, and is planned to teach the student the modern theories and views. Required of major students and ceramic students. Prerequisite, course 1 or its equivalent. Two hours, Sec. A, W., F., 2:30. Sec. B, T., Th., 11:30.

3. Qualitative Analysis. The detailed separation and identification of the metals, non-metals and acid radicals. A laboratory course consisting of six hours of laboratory work a week throughout the year, with an occasional lecture. Required of major students and ceramic students. Prerequisite, course 1, or its equivalent. Three hours. T., Th., 1:30.

Sagger Making

4. Quantitative Analysis. A laboratory course of four hours laboratory work a week throughout the year. The work embraces the principal methods of gravimetric and volumetric analysis. Required of major students. Prerequisites, courses 1 and 3. Two hours. Th., 1:30.

5. [Organic Chemistry. Two recitations or lectures and one two-hour laboratory period a week throughout the year. The systematic study of the chemistry of the hydrocarbons is taken up and many typical compounds are prepared in the laboratory. Required of major students. Three hours. Recitations M., F., 10.30. Laboratory, Th., 2.]

6. Clay Analysis. The detailed analysis of clays and like bodies, two laboratory periods of two hours each during the first semester. Required of ceramic students and of major students. Prerequisites, courses 1 and 3. Two hours. Th., 1:30.

7. Advanced Quantitative Analysis. The analysis of fuels, gases, special work with clays and work with the combustion furnace are taken up. Four hours laboratory work a week during the second semester. Required of ceramic students and major students. Prerequisites, courses 1, 3, and 6. Two hours, II, Th., 2.

8. Physical Chemistry. The study of the concepts and views of modern physical chemistry. Solutions, chemical equilibrium, the phase rule, chemical kinetics, etc. Much assigned reading is covered and current chemical literature is reviewed. Required of major students and ceramic students. Prerequisites, courses 1, 2, 3. and preferably course 5 should have been taken. Recitations and lectures. Two hours. Hours to be arranged.

Department of Clay Testing

Professor Binns

Professor Wilcox

The State School of Ceramics is fitted and the experts in charge are qualified, for the professional examination and testing of clays for economic purposes. Such clays may be classified under the following heads:

(*a*) Kaolin, white burning residual clay.

(*b*) Kaolin, white burning, washed for market, used in the manufacture of pottery, porcelain and paper.

(*c*) Ball clay, white or cream burning, sedimentary clay of high plasticity, used in pottery manufacture.

(*d*) Stone ware clay, gray or cream burning, more or less sandy in character, used in stoneware manufacture.

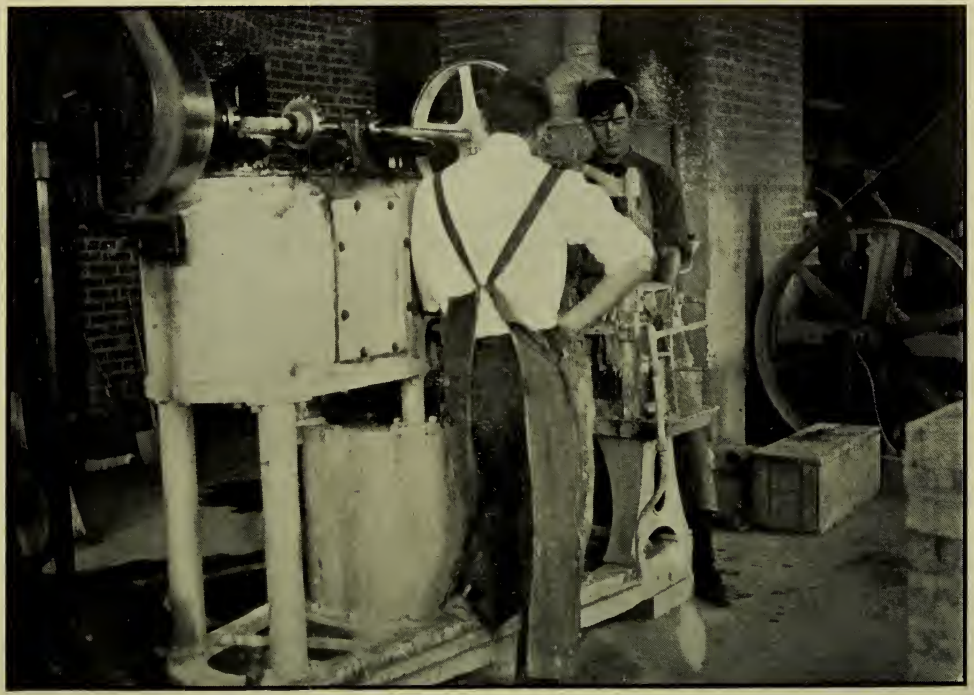
(*e*) Fire clay, buff or white burning, refractory, used for manufacture of fire brick.

(*f*) Brick clay, including colored clays and shales, used for the manufacture of brick and tile of various qualities and descriptions.

For each of the above classes special tests are necessary, and the charges made are proportionate to the work required.

A report upon each sample will be furnished and must be understood to refer only to the sample submitted unless the experts are instructed to examine the deposit and prepare their own samples, in which case special charges will be made. The report includes physical tests, and chemical analysis where necessary.

Advice as to washing or other preparation of the clay is also given, together with an opinion as to the industry to which the material may be applied.



The Slip Plant

Charges

Clays and shales indigenous to the State of New York will be tested without charge beyond the actual cost involved in the examination. Estimates can be obtained upon application.

For tests of samples from other states charges will be as follows:

For classes a, d, and e, per sample	$50 00
For classes b, c, and f, per sample	$25 00
All charges are payable in advance	

The sample submitted should not be less than five pounds in weight and must be forwarded express prepaid.

If the manipulation of bulk samples be desired the State School is prepared to undertake the experimental production of clay wares at reasonable rates.

Department of Mechanical Drawing

Professor Kenyon

1. A course of instruction in mechanical drawing, general principles, and use of instruments.

2. Descriptive geometry, orthographic projection, projection of shadows, linear perspective, intersection and development of geometrical surfaces.

3. Making of plans, elevations and details, lettering, machine drawing and the making of blue prints.

Department of Ceramic Art

Professor Binns

Miss Upton

The college subjects in this course are intended to afford the student a grasp of the history of the world with its progress in culture. With this view a close study of the history of art is expected. Lectures on the elements of beauty in form and decoration, and on the possibilities and limitations of clay in ornamental work are given at the same time as the studio work. The exercises may extend over all the four years of the course.

1. A course of instruction in free hand drawing from casts, nature, and life, in pencil and charcoal.

2. A course of instruction in composition and design. The study of beauty and the principles leading to its expression.

3. A course of instruction in clay modeling from casts, nature and life.

4. A course of instruction in pottery design. Designing and production of pottery forms. Building and the potter's wheel.

5. A course of instruction in pottery decoration. Incising, inlaying and embossing. The use of under-glaze colors.

6. A course of instruction in applied modeling. Production of form in clay and plaster. Architectural terra cotta.

Attention will be given to the natural ability of each student and specialization will be encouraged.

Students who have already taken a college course or its equivalent may devote their entire time to the study of ceramic art at the discretion of the faculty.

UNIVERSITY OF ILLINOIS-URBANA
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